Special Issue

Application of Plasma Technology in Bioscience and Biomedicine

Message from the Guest Editors

Plasma technology has been an integral part of life sciences research for decades through its role in the manufacture and modification of material surface characteristics of many common laboratory consumables.

Plasma can elicit a wide range of biological effects predominantly based on the action of various reactive species generated in the discharge which can modify biomolecules, affect cell growth and behaviour or inactivate microorganisms. Plasma deposition is used for generating material coatings with particular biological functions. Plasma-activated/treated liquids generated by exposing liquids to a plasma discharge can achieve many of the aforementioned biological effects induced by direct plasma due to a retention of longer-lived plasma reactive species. Recent years have seen cold plasma move into the clinic for its use in wound healing, and further applications are likely to follow.

In this Special Issue, we would like to cover the breadth and diversity of plasma technology in bioscience and biomedicine and provide a snapshot of some of the exciting research currently happening in this field.

Guest Editors

Dr. Daniela Boehm

College of Sciences and Health, Technological University Dublin, Dublin D7, Ireland

Dr. Cristina Canal

Department of Materials Science and Metallurgy (CMEM), Universitat Politècnica de Catalunya (UPC), 08034 Barcelona, Spain

Deadline for manuscript submissions

closed (5 December 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/35594

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)